

Update: Licensed Acute Care Hospital Beds Fiscal Year 2015

Background

An Annual Report profiling changes in licensed acute care hospital beds in Maryland's acute care hospitals was initiated in 2001 to document and track changes in the licensed bed inventory following implementation of a standardized annual licensure renewal process based on inpatient census. The process involves notifying hospitals prior to the beginning of each fiscal year concerning the calculated total number of licensed acute care beds for the coming fiscal year. In turn, the hospitals identify the allocation of the total licensed acute care beds across four service categories: medical/surgical/gynecological/addictions ("MSGA"); obstetric, pediatric, and acute psychiatric services. Over time, additional information on hospital service capacity, covering emergency department services, surgical services, obstetric and perinatal services, and non-acute care bed capacity have been added to the survey undertaken to update acute care bed licensure.

This interim update provides information on licensed acute care hospital beds for fiscal year 2015, which began July 1, 2014. The full report, *Annual Report on Selected Maryland Acute Care Hospital Services, Fiscal Year 2015*, will be released later this year. That report, in addition to profiling changes in licensed acute care hospital beds, will also include updated information on emergency department capacity, surgical services capacity, obstetric and perinatal services capacity, non-acute care beds in the general hospital setting, and specialty hospital beds.

Acute Care Hospital Bed Capacity

Licensed bed capacity for acute care hospitals in the State of Maryland is dynamic, calculated annually based on average daily acute care inpatient census. The Maryland Health Care Commission, in conjunction with the Health Services Cost Review Commission, calculates the average daily census (ADC) of acute care patients for each hospital for the 12-month period ending with the first quarter of each year and total licensed acute care bed capacity is established for the next fiscal year at 140% of the hospital's average daily census. This licensure approach reflects an assumption that an average annual occupancy rate of approximately 71.4% for acute care hospital beds is an appropriate bench-mark for determining the maximum number of beds an acute care hospital needs to operate.

The initial implementation of this licensure process in FY 2001 resulted in a total of 9,562 licensed acute care beds, removing 2,773 beds from the licensure rolls. Total licensed acute care bed capacity increased, in response to increases in average daily patient census each year after the initial reduction in 2001, peaking at 10,880 beds in FY 2011. The total number of licensed acute care hospital beds in Maryland has declined in every following year, declining to 9,804 beds in the current fiscal year. Thus, Maryland experienced a 13.8% increase in the average daily census of acute care patients between 2000 and 2010 and has experienced a 9.9% decline in acute care ADC between 2010 and 2014.

Licensed Acute Care Hospital Beds in Maryland: FY 2015

Table 1 shows the licensed acute care bed capacity for each acute care hospital, by service, effective July 1, 2015. The calculation of licensed beds for FY 2015, based on each hospital's ADC during the period April 1, 2013 through March 31, 2014, results in a total of 9,804 licensed acute care hospital beds in Maryland. Table 2 shows the ten-year trend in licensed acute care beds by hospital. Table 3 shows the percent change by region.

Table 1. Licensed Acute Care Beds by Hospital and Service: Maryland, FY 2015

Jurisdiction/ Region	Hospital	Acute Care Services				
		MSGA	Obstetric	Pediatric	Psychiatric	Total
Allegany County	Western Maryland Regional Medical Center	160	10	2	20	192
Frederick County	Frederick Memorial Hospital	200	27	10	21	258
Garrett County	Garrett County Memorial Hospital	20	2	1	0	23
Washington County	Meritus Medical Center	193	17	5	16	231
WESTERN MARYLAND TOTAL		573	56	18	57	704
Montgomery County	Holy Cross Hospital of Silver Spring	277	88	26	0	391
	MedStar Montgomery Medical Center	87	11	2	20	120
	Shady Grove Adventist Hospital	224	56	25	0	305
	Suburban Hospital	190	0	6	24	220
	Washington Adventist Hospital	171	21	0	40	232
MONTGOMERY COUNTY TOTAL		949	176	59	84	1,268
Calvert County	Calvert Memorial Hospital	66	7	1	11	85
Charles County	University of Maryland Charles Regional Medical Center	99	12	4	0	115
Prince George's County	Doctors Community Hospital	182	0	0	0	182
	Fort Washington Medical Center	31	0	0	0	31
	Laurel Regional Hospital	50	10	0	14	74
	MedStar Southern Maryland Hospital Center	148	30	4	25	207
	Prince George's Hospital Center	141	38	8	28	215
	<i>Total: Prince George's County</i>	<i>552</i>	<i>78</i>	<i>12</i>	<i>67</i>	<i>709</i>
St. Mary's County	MedStar St. Mary's Hospital	52	12	6	12	82
SOUTHERN MARYLAND TOTAL		769	109	23	90	991
Anne Arundel County	Anne Arundel Medical Center	316	60	8	0	384
	University of Maryland Baltimore Washington Medical Center	271	15	10	14	310
	<i>Total: Anne Arundel County</i>	<i>587</i>	<i>75</i>	<i>18</i>	<i>14</i>	<i>694</i>
Baltimore City	Bon Secours Hospital	56	0	0	32	88
	Johns Hopkins Bayview Medical Center	293	17	7	20	337
	MedStar Good Samaritan Hospital	177	0	0	0	177
	MedStar Harbor Hospital	90	25	5	0	120
	MedStar Union Memorial Hospital	177	0	2	26	205
	Mercy Medical Center	170	32	5	0	207
	Sinai Hospital of Baltimore	334	23	26	24	407
	St. Agnes Hospital	239	20	5	0	264
	The Johns Hopkins Hospital	799	35	140	108	1,082
	University of Maryland Medical Center	657	30	58	56	801
	University of Maryland Medical Center Midtown Campus	82	0	0	28	110
	University of Maryland Rehabilitation and Orthopaedics Institute	10	0	0	0	10
	<i>Total: Baltimore City</i>	<i>3,084</i>	<i>182</i>	<i>248</i>	<i>294</i>	<i>3,808</i>
Baltimore County	Greater Baltimore Medical Center	177	60	8	0	245
	MedStar Franklin Square Hospital	268	37	9	40	354
	Northwest Hospital Center	222	0	0	23	245
	University of Maryland St. Joseph Medical Center	195	20	4	19	238
	<i>Total: Baltimore County</i>	<i>862</i>	<i>117</i>	<i>21</i>	<i>82</i>	<i>1,082</i>
Carroll County	Carroll Hospital Center	100	20	7	20	147
Harford County	University of Maryland Harford Memorial Hospital	57	0	0	27	84
	University of Maryland Upper Chesapeake Medical Center	168	12	3	0	183
	<i>Total: Harford County</i>	<i>225</i>	<i>12</i>	<i>3</i>	<i>27</i>	<i>267</i>
Howard County	Howard County General Hospital	199	34	6	20	259
CENTRAL MARYLAND TOTAL		5,057	440	303	457	6,257
Cecil County	Union Hospital of Cecil County	60	5	2	8	75
Dorchester County	University of Maryland Shore Medical Center at Dorchester	23	0	0	16	39
Kent County	University of Maryland Shore Medical Center at Chestertown	30	0	1	0	31
Somerset County	Edward W. McCready Memorial Hospital	4	0	0	0	4
Talbot County	University of Maryland Shore Medical Center at Easton	87	17	8	0	112
Wicomico County	Peninsula Regional Medical Center	235	20	8	12	275
Worcester County	Atlantic General Hospital	48	0	0	0	48
EASTERN SHORE TOTAL		487	42	19	36	584
MARYLAND TOTAL		7,835	823	422	724	9,804

Source: Maryland Health Care Commission, Acute Care Hospital Inventory (ACHI) FY2015.

Table 2. Trend in Licensed Acute Care Beds by Hospital: Maryland, FY 2006 - 2015*

Jurisdiction/Region	Hospital	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Allegany County	Braddock Hospital	144	148	155	154	-	-	-	-	-	-
	Memorial Hosp & Med Ctr. of Cumberland	124	120	109	117	-	-	-	-	-	-
	Western Maryland Regional Medical Center	-	-	-	-	262	252	250	234	200	192
	<i>Total: Allegany County</i>	268	268	264	271	262	252	250	234	200	192
Frederick County	Frederick Memorial Hospital	232	227	246	269	274	276	309	298	297	258
Garrett County	Garrett County Memorial Hospital	33	31	34	36	33	31	30	29	26	23
Washington County	Meritus Medical Center	246	243	264	258	260	258	252	245	237	231
WESTERN MARYLAND TOTAL		779	769	808	834	829	817	841	806	760	704
Montgomery County	Holy Cross Hospital of Silver Spring	365	379	404	408	404	402	409	396	397	391
	MedStar Montgomery General Hospital	144	144	149	165	170	159	158	138	132	120
	Shady Grove Adventist Hospital	269	268	275	293	320	336	339	331	312	305
	Suburban Hospital	228	212	228	238	239	222	233	229	236	220
	Washington Adventist Hospital	292	285	294	292	288	281	271	252	252	232
MONTGOMERY COUNTY TOTAL		1,298	1,288	1,350	1,396	1,421	1,400	1,410	1,346	1,329	1,268
Calvert County	Calvert Memorial Hospital	105	107	105	106	98	98	95	95	92	85
Charles County	Univ. of MD Charles Regional Medical Center	117	109	121	129	120	120	124	110	121	115
Prince George's County	Doctors Community Hospital	181	186	192	195	190	195	219	207	198	182
	Fort Washington Medical Center	41	42	42	43	43	42	41	31	33	31
	Laurel Regional Hospital	108	96	95	97	95	87	83	77	78	74
	MedStar Southern Maryland Hospital Center	246	257	258	255	246	235	238	239	227	207
	Prince George's Hospital Center	269	268	264	246	254	244	242	224	214	215
	<i>Total: Prince George's County</i>	845	849	851	836	828	803	823	778	750	709
St. Mary's County	MedStar St. Mary's Hospital	88	105	108	108	103	96	90	90	89	82
SOUTHERN MARYLAND TOTAL		1,155	1,170	1,185	1,179	1,149	1,117	1,132	1,073	1,052	991
Anne Arundel County	Anne Arundel Medical Center	265	265	278	301	316	324	336	380	385	384
	Univ. of MD Baltimore Washington Medical Center	278	286	293	298	311	321	308	307	319	310
	<i>Total: Anne Arundel County</i>	543	551	571	599	627	645	644	687	704	694
Baltimore City	Bon Secours Hospital	142	141	151	125	126	141	127	115	107	88
	Johns Hopkins Bayview Medical Center	316	323	333	345	346	348	348	355	355	337
	MedStar Good Samaritan Hospital	279	265	265	245	236	235	222	224	206	177
	MedStar Harbor Hospital	182	186	203	215	221	193	179	160	136	120
	MedStar Union Memorial Hospital	287	279	283	292	295	271	231	236	221	205
	Mercy Medical Center	228	224	235	243	244	244	226	233	225	207
	Sinai Hospital of Baltimore	392	393	398	415	413	424	416	426	421	407
	St. Agnes Hospital	308	323	314	307	318	314	296	287	276	264
	The Johns Hopkins Hospital	956	958	982	979	990	994	992	1,000	1,060	1,082
	University of Maryland Medical Center	665	669	689	705	731	757	779	800	816	801
	Univ. of MD Medical Center Midtown Campus	196	205	209	191	180	167	164	155	128	110
	Univ. of MD Rehabilitation & Orthopaedic Institute	10	11	10	11	10	10	9	9	10	10
	<i>Total: Baltimore City</i>	3,961	3,977	4,072	4,073	4,110	3,921	3,989	3,836	3,961	3,808
	Greater Baltimore Medical Center	287	292	298	310	300	285	281	270	255	245
	MedStar Franklin Square Hospital	343	357	362	380	371	376	347	355	347	354
Baltimore County	Northwest Hospital Center	209	214	213	218	221	215	221	225	243	245
	Univ. of MD St. Joseph Medical Center	342	370	364	354	345	300	263	247	232	238
	<i>Total: Baltimore County</i>	1,181	1,233	1,237	1,262	1,237	891	1,112	1,097	1,077	1,082
	Carroll Hospital Center	199	210	216	218	213	195	189	158	151	147
Harford County	Univ. of MD Harford Memorial Hospital	91	94	91	104	105	101	97	89	89	84
	Univ. of MD Upper Chesapeake Medical Center	149	167	168	182	196	186	175	181	185	183
	<i>Total: Harford County</i>	240	261	259	286	301	287	272	270	274	267
Howard County	Howard County General Hospital	204	208	219	209	227	238	249	249	253	259
CENTRAL MARYLAND TOTAL		6,328	6,440	6,574	6,647	6,715	6,177	6,455	6,297	6,420	6,257
Cecil County	Union Hospital of Cecil County	111	99	105	116	113	113	106	92	85	75
Dorchester County	Univ. of MD Shore Medical Center at Dorchester	58	53	49	54	54	53	52	46	41	39
Kent County	Univ. of MD Shore Medical Center at Chestertown	57	58	62	57	53	47	46	42	41	31
Somerset County	Edward W. McCready Memorial Hospital	8	9	8	9	8	8	9	5	4	4
Talbot County	Univ. of MD Shore Medical Center at Easton	129	120	123	120	125	120	116	112	112	112
Wicomico County	Peninsula Regional Medical Center	360	371	366	362	358	362	363	317	288	275
Worcester County	Atlantic General Hospital	40	49	51	53	55	53	53	48	45	48
EASTERN SHORE TOTAL		763	759	764	771	766	756	745	662	616	584
MARYLAND TOTAL		10,323	10,426	10,681	10,827	10,880	10,729	10,583	10,184	10,177	9,804

Source: Maryland Health Care Commission.

*Prior to FY 2001, the number of licensed acute care hospital beds was based on physical bed capacity. Statewide, there were 12,328 licensed acute care beds in FY2000. In FY 2001, the first year that state law required licensure of acute care hospital beds based on actual patient census, the total number of licensed acute care hospital beds in Maryland declined to 9,562.

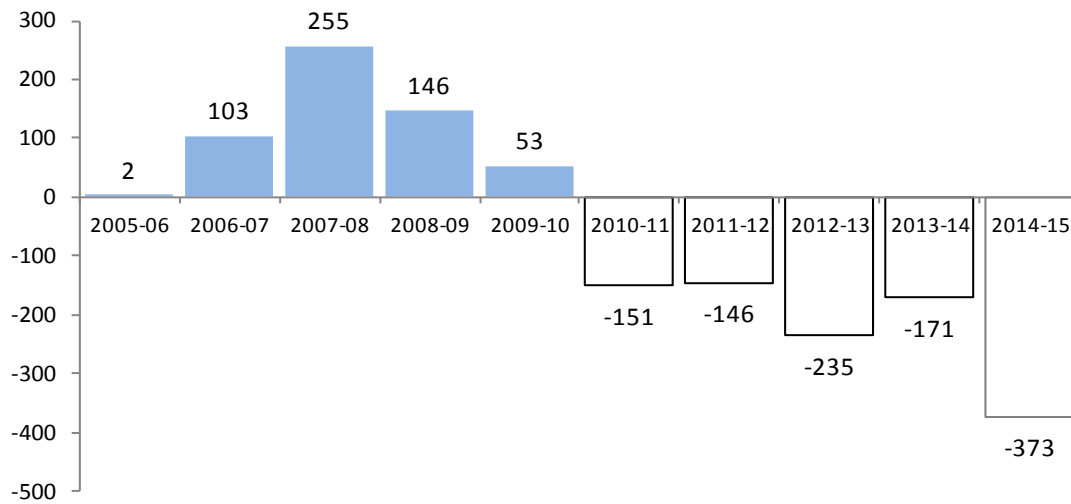
**Table 3. Percent Change in Total Licensed Acute Care Hospital Beds,
by Maryland Region: Fiscal Years 2006 - 2015**

Region	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Average Annual Change 2006 - 2017
Western Maryland	-0.4%	-1.3%	5.1%	3.2%	-0.6%	-1.4%	2.9%	-4.2%	-5.7%	-7.4%	-1.0%
Montgomery County	-3.0%	-0.8%	4.8%	3.4%	1.8%	-1.5%	0.7%	-4.5%	-1.3%	-4.6%	-0.5%
Southern Maryland	-2.9%	1.3%	1.3%	-0.5%	-2.5%	-2.8%	1.3%	-5.2%	-2.0%	-5.8%	-1.8%
Central Maryland	1.1%	1.8%	2.1%	1.1%	1.0%	-1.1%	2.8%	0.1%	-0.6%	-2.5%	0.6%
Eastern Shore	1.3%	-0.5%	0.7%	0.9%	-0.6%	-1.3%	1.5%	-11.1%	-6.9%	-5.2%	-2.1%
Maryland Total	0.0%	1.0%	2.4%	1.4%	0.5%	-1.4%	-1.4%	-2.2%	-1.7%	-3.7%	-0.5%

Source: Maryland Health Care Commission

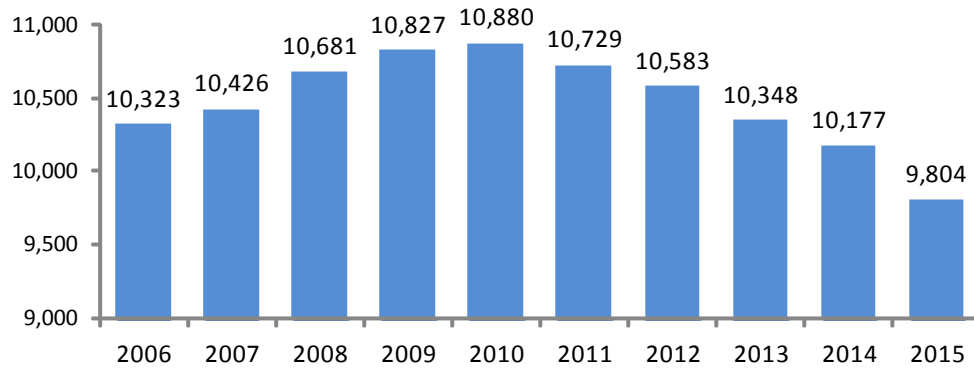
Chart 1 displays the annual net change in licensed acute care beds over the last ten years, while Chart 2 shows the total number of licensed beds over the same time period.

**Chart 1. Year to Year Change in Total Licensed Acute
Care Beds: Maryland Hospitals, FY 2005 - 2015**



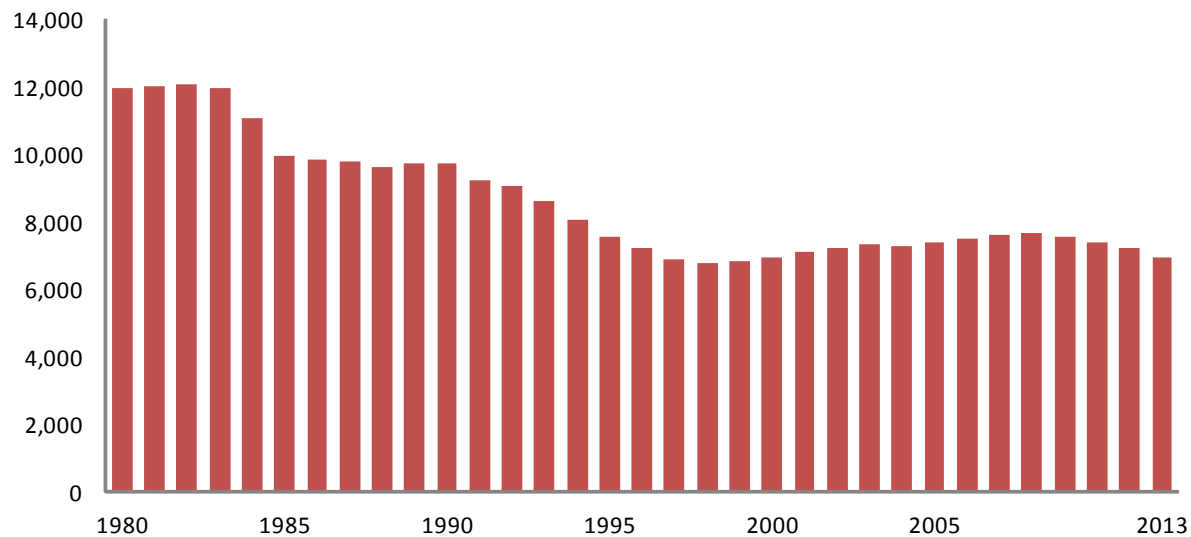
Source: Maryland Health Care Commission

**Chart 2. Total Licensed Acute Care Beds:
Maryland Hospitals, FY 2006 - 2015**



Source: Maryland Health Care Commission

**Chart 3. Trend in Average Daily Acute Care Patient Census:
Maryland Hospitals, CY 1980 - 2013**



Source: Maryland Health Care Commission. Note: Data reported is based on the Hospital Discharge Abstract Data Base for calendar years 1980 - 2013 and reflects the average daily census for all services excluding newborn and rehabilitation services.

While the average daily census of acute care patients began to gradually trend upward in the late 1990's, hospital utilization in Maryland never returned to historic peaks. During calendar year 2009 average daily census saw the first decline since dynamic hospital bed licensure went into effect in 2001. The average daily census declined again in calendar year 2010. Chart 3 shows the trend of declining acute care census from the early 1980s through the late 1990s, the extent of the rebound in census that occurred in the next ten years and the recent return to gradual decline after 2008.

Table 4 profiles the FY 2014 - 2015 change in total licensed acute care hospital beds from a regional perspective. The State as a whole experienced an overall decrease of 3.7% in bed capacity. All Maryland health planning regions saw an overall decrease in bed capacity for FY 2015, Central Maryland had the lowest decrease in bed capacity, Western Maryland showed the largest overall decrease in bed capacity. Statewide, five (5) hospitals saw an increase in bed capacity, thirty-seven (37) hospitals saw a decrease in bed capacity and four hospitals had no change in bed capacity from the previous year.

**Table 4. Change in Number of Total Licensed Acute Care Beds by Region:
Maryland Hospitals, FY 2014 - FY 2015**

Region	Total Number of Hospitals	Net Change in Number of Total Licensed Beds	Percent Change	Number of Hospitals with an Increase in Beds	Number of Hospitals with a Decrease in Beds	Number of Hospitals with No Change in Hospital Beds
Western Maryland	4	(56)	-7.4%	0	4	0
Montgomery County	5	(61)	-4.6%	0	5	0
Southern Maryland	8	(61)	-5.8%	1	7	0
Central Maryland	22	(163)	-2.5%	3	17	2
Eastern Shore	7	(32)	-5.2%	1	4	2
MARYLAND TOTAL	46	(373)	-3.7%	5	37	4

Source: Maryland Health Care Commission

Tables 5 and 6 profile the change in the inventory of licensed acute care hospital beds for the past ten fiscal years for the four acute care bed service categories. As can be seen, there have been no dramatic changes in the allocation of acute care beds by Maryland's hospitals over this period, with MSGA beds accounting for an average of 80% of total acute care beds, obstetric beds comprising an average of 8%, acute psychiatric beds, on average, 7% of total, and pediatric beds, 4% of total.

**Table 5. Allocation of Licensed Acute Care Beds by Service
Maryland Hospitals, FY 2006 - 2015**

Service Category	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MSGA	8,349	8,451	8,694	8,827	8,890	8,738	8,590	8,352	8,198	7,835
Obstetric	840	838	848	854	851	848	851	851	827	823
Pediatric	457	459	458	459	451	452	447	442	438	422
Acute Psychiatric	677	678	681	687	688	691	695	703	714	724
TOTAL	10,323	10,426	10,681	10,827	10,880	10,729	10,583	10,348	10,177	9,804

Source: Maryland Health Care Commission

**Table 6. Allocation of Licensed Acute Care Beds by Service (Percentage),
Maryland Hospitals, FY 2006 - FY 2015**

Service Category	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
MSGA	80.9%	81.1%	81.4%	81.5%	81.7%	81.4%	81.2%	80.7%	80.6%	79.9%
Obstetric	8.1%	8.0%	7.9%	7.9%	7.8%	7.9%	8.0%	8.2%	8.1%	8.4%
Pediatric	4.4%	4.4%	4.3%	4.2%	4.1%	4.2%	4.2%	4.3%	4.3%	4.3%
Acute Psychiatric	6.6%	6.5%	6.4%	6.3%	6.3%	6.4%	6.6%	6.8%	7.0%	7.4%
TOTAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

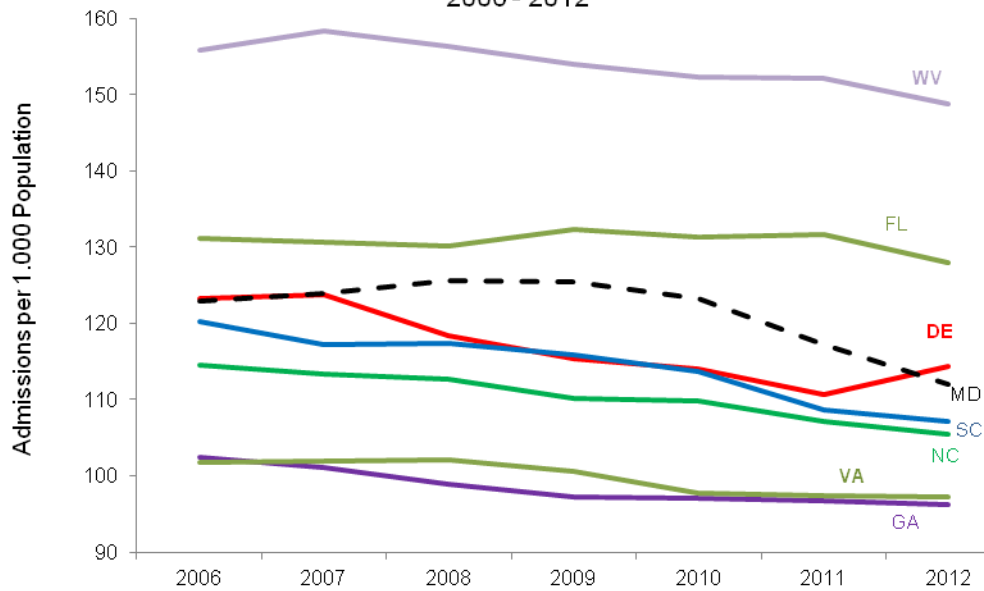
Source: Maryland Health Care Commission

Demand for Hospital Beds in Maryland Compared with Regional and National Trends

The following graphs profile information from *Hospital Statistics*, an annual publication of the American Hospital Association. They reflect this publication's reported acute care hospital use rates and average stay statistics for Maryland and contrasts the demand reported for other Southeastern States and the U.S. experience.

The first two graphs compare hospital admissions per thousand population and average length of hospital stay in Maryland with the experience of the seven other states in the South Atlantic Census Region. This data is not age-adjusted. The relative age of the population in these states is an important factor in its interpretation. To provide some context, the accompanying table compares the proportion of 65 and older persons in the total population of these states, as recorded in the estimated 2012 U.S. Census of population.

Chart 4: Hospital Admissions per 1,000 Population
All Hospital Unit Admissions (Excludes NH Unit Admissions)
South Atlantic Census Region States
2006 - 2012



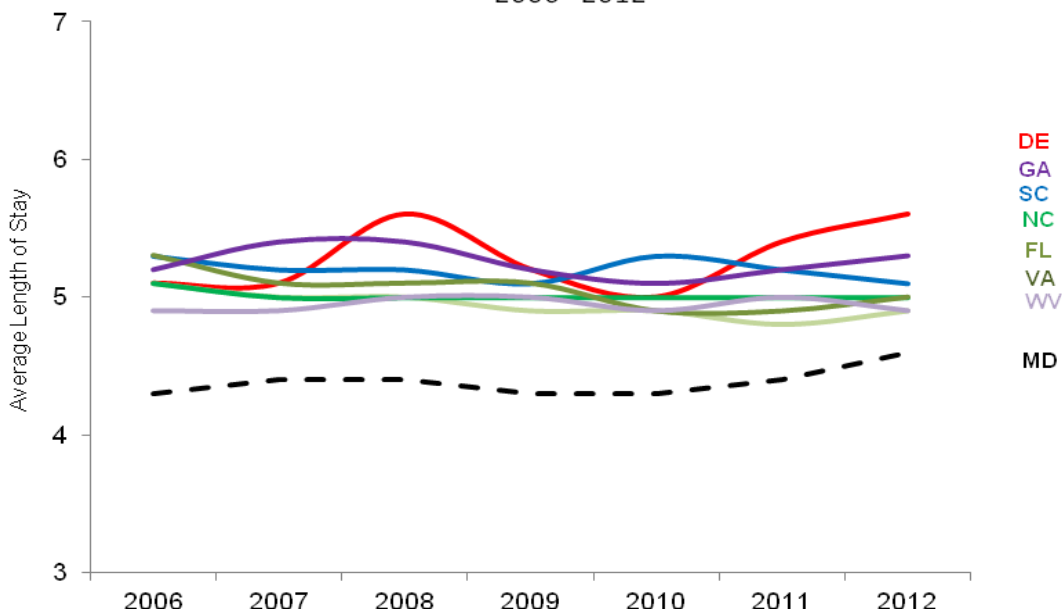
Source: AHA Hospital Statistics (2013) Edition)

Table 7.
Proportion of Total Population Aged 65 and Older
South Atlantic Census Region States, 2013

State	Percentage of Population Aged 65 and Older
Florida	18.7%
West Virginia	17.3%
Delaware	15.9%
South Carolina	15.2%
North Carolina	14.3%
Maryland	13.4%
Virginia	13.4%
Georgia	12.0%

Source: U.S. Census Bureau, Estimated 2014

Chart 5: Hospital Average Length of Stay
All Hospital Unit Admissions (Excludes NH Unit Admissions)
South Atlantic Census Region
2006 - 2012

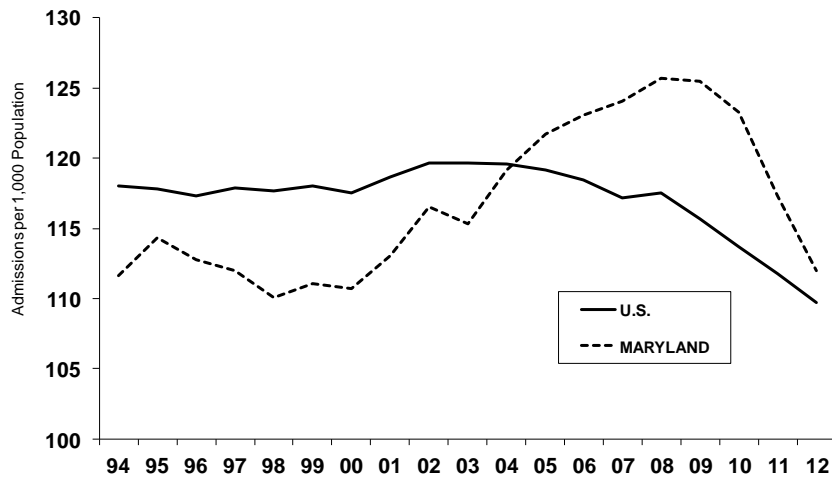


As will be noted, from a regional perspective, Maryland's admissions rate has been lower than that of the states in the South Atlantic region with a higher percentage of population aged 65 and older, Florida and West Virginia, as would be expected. Maryland's admissions rate does not compare well in this recent time period with the Carolinas, Delaware, or Virginia, all of which have only slightly older populations or populations comparable in age to that of Maryland. However, Maryland stands out as having a distinctly shorter average length of stay, when compared with these other states, as shown in Chart 5.

The following graphs, taken from the same data source, provide a longer-term perspective on Maryland and the Nation. Maryland had an enviable record with respect to admissions rate and average length of hospital stay in the 1990s but this changed during the previous decade. Hospital use rates in Maryland peaked in the 2008-09 period, at approximately 8-9% higher than the overall National use rate but has declined steeply in the following years.

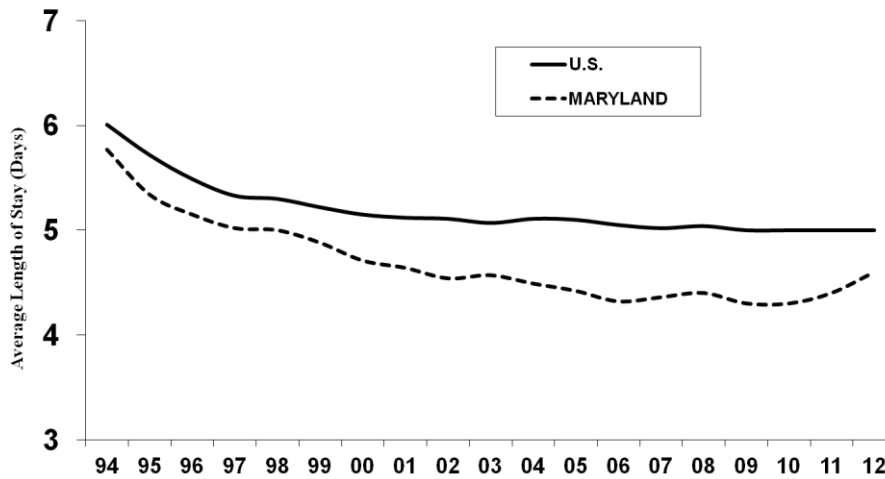
Maryland has been steadily discharging hospital patients more quickly, on average, than has been the National experience. Some narrowing of the gap between Maryland's ALOS and that of the U.S. has occurred as Maryland's hospitals have reduced short stays, in many cases, replacing such stays with "observation" admissions that are not recorded as hospital admissions in this data. The Health Services Cost Review Commission initiated policy changes in recent years aimed at reducing very short-stay admissions, prompted by data indicating a relatively high proportion of one day stays in the State. Further narrowing of the gap between Maryland and the nation with respect to hospital length of stay can be anticipated.

Chart 6: Hospital Admissions per 1,000 Population
All Hospital Unit Admissions (Excludes NH Unit Admissions)
U.S. and Maryland
1994-2012



Source: AHA Hospital Statistics (Average of Published Rates, 2000, 2002-2007, 2009-2014 Editions)

Chart 7: Hospital Average Length of Stay
All Hospital Unit Admissions (Excludes NH Unit Admissions)
U.S. and Maryland
1994-2012



SOURCE: AHA HOSPITAL STATISTICS

Note concerning the AHA data: The American Hospital Association (AHA) conducts an annual survey of all hospitals, both AHA-registered and nonregistered, in the U.S. and its associated areas. AHA reports, overall, the average response rate over the past five years has been approximately 85 percent.